

Docket No.: 53674-015

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AF/1755
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Hitoshi SUMIYA, et al

Serial No.: 09/462,876

Filed: January 18, 2000

Group Art Unit: 1755

Examiner: K. Group

For: CUTTING TOOL OF A CUBIC BORON NITRIDE SINTERED COMPACT

THE COMMISSIONER FOR PATENTS AND TRADEMARKS
Washington, DC 20231

Dear Sir:

Transmitted herewith is an Amendment in the above identified application.

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No additional fee is required.

Small entity status of this application under 37 CFR 1.9 and 1.27 has been established by a verified statement previously submitted.

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A verified statement to establish small entity status under 37 CFR 1.9 and 1.27 is enclosed.

Also attached:

The fee has been calculated as shown below:

	NO. OF CLAIMS	HIGHEST PREVIOUSLY PAID FOR	EXTRA CLAIMS	RATE	FEE
Total Claims	9	20	0	\$18.00 =	\$0.00
Independent Claims	2	3	0	\$80.00 =	\$0.00
Multiple claims newly presented					\$0.00
Fee for extension of time					\$0.00
Total of Above Calculations					\$0.00

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Please charge my Deposit Account No. 500417 in the amount of \$0.00. An additional copy of this transmittal sheet is submitted herewith.

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The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment, to Deposit Account No. 500417, including any filing fees under 37 CFR 1.16 for presentation of extra claims and any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

MCDERMOTT, WILL & EMERY

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Docket No.: 53674-0015



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9/13/01
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : RESPONSE UNDER 37 CFR 1.116
Hitoshi SUMIYA, et al. : EXPEDITED PROCEDURE
Serial No.: 09/462,876 : Group Art Unit: 1755
Filed: January 18, 2000 : Examiner: K. Group
For: CUTTING TOOL OF A CUBIC BORON NITRIDE SINTERED COMPACT

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AMENDMENT UNDER 37 CFR §1.116

Box AF
Commissioner for Patents
Washington, DC 20231

Sir:

The following Amendment and Remarks are submitted in response to the Office Action dated June 6, 2001 pursuant to the provisions of 37 C.F.R. §1.116.

IN THE CLAIMS:

Please amend claim 1 as follows:

1. (Amended) A cutting tool comprising, as an edge part, a cubic boron nitride sintered compact containing cubic boron nitride having an average grain diameter of at most 1 μm , in which the cubic boron nitride sintered compact has, at the said edge part, an $I_{(220)}/I_{(111)}$ of (220) diffraction intensity ($I_{(220)}$) to (111) diffraction intensity $I_{(111)}$ ratio of at least 0.05 in X-ray diffraction of arbitrary direction and impurities are substantially not contained in the grain boundaries, wherein the transverse rupture strength of the said cubic boron nitride sintered